

Name of Work: Improvements to roads and drains at SC/ST area of Attur layout and surrounding areas in Ward No. 03 of Yelahanka sub division

EMB

"FIRST AND FINAL BILL"

Name of Work: Improvements to roads and drains at SC/ST area of Attur layout and surrounding areas in Ward No. 03 of Yelahanka sub division

Date of Pre-Measurement : 18.11.2019

Item No	Discription of Item	Detailed Measurements					Unit
		No	Length	Breadth	Depth	Qty	
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking						
	Santosh nagar						
	Main Road						
	LHS						
	Ch: 0 to 5.5m	✓	5.50	1.20	1.20	7.92	
	Road gap						
	Ch: 0 to 23.2m	✓	23.20	1.20	1.20	33.41	
	Road gap						
	Ch: 0 to 26.0m	✓	26.00	1.20	1.20	37.44	
	Road gap						
	Ch: 0 to 25.0m	✓	25.00	1.20	1.20	36.00	
	Road gap						
	Ch: 0 to 26.3m	✓	26.30	1.20	1.20	37.87	
	Road gap						
	Ch: 0 to 31.0m	✓	31.00	1.20	1.20	44.64	
	Road gap						
	Ch: 0 to 13.60m	✓	13.60	1.20	1.20	19.58	
	Road gap						
	Ch: 0 to 30.0m	✓	30.00	1.20	1.20	43.20	
	Ch: 30 to 60.0m	✓	30.00	1.20	1.20	43.20	
	Ch: 60 to 70.50m	✓	10.50	1.20	1.20	15.12	
	Ch: 70.5 to 80.20m	✓	9.70				
	Ch: 80.2 to 99.20m	✓	19.00	1.20	1.20	27.36	
	RHS						
	Ch: 0 to 30.0m	✓	30.00	1.20	1.20	43.20	
	Ch: 30 to 32.0m	✓	2.00	1.20	1.20	2.88	
	Road gap						
	Ch: 0 to 26.7m	✓	26.70	1.20	1.20	38.45	
	Road gap						
	Ch: 0 to 30.0m	✓	30.00	1.20	1.20	43.20	
	Ch: 30 to 34.20m	✓	4.20	1.20	1.20	6.05	
	Road gap						
	Ch: 0 to 27.20m	✓	27.20	1.20	1.20	39.17	
	Road gap						
	Ch: 0 to 26.80m	✓	26.00	1.20	1.20	37.44	
	Road gap						
	Ch: 0 to 28.80m	✓	28.80	1.20	1.20	41.47	
	Road gap						
	Ch: 0 to 30.0m	✓	30.00	1.20	1.20	43.20	
	Ch: 30 to 60.0m	✓	30.00	1.20	1.20	43.20	
	Ch: 60 to 62.20m	✓	2.20	1.20	1.20	3.17	

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CROSS ROAD - 1							
LHS							
Ch: 0 to 16.90m		1	16.90	1.20	1.10	22.31	
RHS							
Ch: 0 to 17.20m		1	17.20	1.20	1.10	22.70	
CROSS ROAD - 2							
LHS							
Ch: 0 to 22.10m		1	22.10	1.20	1.10	29.17	
RHS							
Ch: 0 to 24.10m		1	24.10	1.20	1.10	31.81	
CROSS ROAD - 3							
LHS							
Ch: 0 to 24.10m		1	24.10	1.20	1.10	31.81	
RHS							
Ch: 0 to 22.90m		1	22.90	1.20	1.10	30.23	
CROSS ROAD - 4							
LHS							
Ch: 0 to 30.90m		1	30.90	1.20	1.10	40.79	
CROSS ROAD - 5							
LHS							
Ch: 0 to 18.0m		1	18.00	1.20	1.10	23.76	
Ch: 18.0 to 27.70m		1	9.70				
Ch: 27.70 to 57.70m		1	30.00	1.20	1.10	39.60	
Ch: 57.70 to 65.20m		1	7.50	1.20	1.10	9.90	
RHS							
Ch: 0 to 30.0m		1	30.00	1.20	1.10	39.60	
Ch: 30 to 60.0m		1	30.00	1.20	1.10	39.60	
Ch: 60 to 64.40m		1	4.40	1.20	1.10	5.81	
CULVERT							
Main Road - 1		1	5.00	1.60	1.10	8.80	
Main Road - 2		1	5.50	1.60	1.10	9.68	
Main Road - 3		1	5.90	1.60	1.10	10.38	
Main Road - 4		1	5.00	1.50	1.10	8.25	
Main Road - 5		1	6.10	1.50	1.10	10.07	
Main Road - 6		1	5.90	1.60	1.10	10.38	
Main Road - 7		1	5.10	1.60	1.10	8.98	
Main Road - 8		1	4.80	1.60	1.10	8.45	
Main Road - 9		1	4.70	1.60	1.00	7.52	
Present Qty						1136.77	Cum

Contractor



Assistant Engineer

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಧೀಕ್ಷಕರು
ಯಶವಂತರಾಜ್ ಮಠಾಪುರ, ಬಳ್ಳಾರಿ ಜಿಲ್ಲಾ
ಜಿ.ಬಿ.ಎಂ.ಕೆ. ಬೆಂಗಳೂರು-108

18.11.2019

(2)

Name of Work: Improvements to roads and drains at SC/ST area of Attur layout and surrounding areas in Ward No. 03 of Yelahanka sub division

Date of Pre-Measurement : 25/11/2019

Item No	Discription of Item	Detailed Measurements						Unit
		No	Length	Breadth	Depth	Qty		
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)							
	Santosh nagar							
	Main Road							
	LHS							
	Ch: 0 to 5.5m	1	5.50	1.20	0.15	0.99		
	Road gap							
	Ch: 0 to 23.2m	1	23.20	1.20	0.15	4.18		
	Road gap							
	Ch: 0 to 26.0m	1	26.00	1.20	0.15	4.68		
	Road gap							
	Ch: 0 to 25.0m	1	25.00	1.20	0.15	4.50		
	Road gap							
	Ch: 0 to 26.3m	1	26.30	1.20	0.15	4.73		
	Road gap							
	Ch: 0 to 31.0m	1	31.00	1.20	0.15	5.58		
	Road gap							
	Ch: 0 to 13.60m	1	13.60	1.20	0.15	2.45		
	Road gap							
	Ch: 0 to 30.0m	1	30.00	1.20	0.15	5.40		
	Ch: 30 to 60.0m	1	30.00	1.20	0.15	5.40		
	Ch: 60 to 70.50m	1	10.50	1.20	0.15	1.89		
	Ch: 70.5 to 80.20m	1	9.70					
	Ch: 80.2 to 99.20m	1	19.00	1.20	0.15	3.42		
	RHS							
	Ch: 0 to 30.0m	1	30.00	1.20	0.15	5.40		
	Ch: 30 to 32.0m	1	2.00	1.20	0.15	0.36		
	Road gap							
	Ch: 0 to 26.7m	1	26.70	1.20	0.15	4.81		
	Road gap							
	Ch: 0 to 30.0m	1	30.00	1.20	0.15	5.40		
	Ch: 30 to 34.20m	1	4.20	1.20	0.15	0.76		
	Road gap							
	Ch: 0 to 27.20m	1	27.20	1.20	0.15	4.90		
	Road gap							
	Ch: 0 to 26.80m	1	26.00	1.20	0.15	4.68		
	Road gap							
	Ch: 0 to 28.80m	1	28.80	1.20	0.15	5.18		
	Road gap							

Ch: 0 to 30.0m	1	30.00	1.20	0.15	5.40
Ch: 30 to 60.0m	1	30.00	1.20	0.15	5.40
Ch: 60 to 62.20m	1	2.20	1.20	0.15	0.40
CROSS ROAD - 1					
LHS					
Ch: 0 to 16.90m	1	16.90	1.20	0.15	3.04
RHS					
Ch: 0 to 17.20m	1	17.20	1.20	0.15	3.10
CROSS ROAD - 2					
LHS					
Ch: 0 to 22.10m	1	22.10	1.20	0.15	3.98
RHS					
Ch: 0 to 24.10m	1	24.10	1.20	0.15	4.34
CROSS ROAD - 3					
LHS					
Ch: 0 to 24.10m	1	24.10	1.20	0.15	4.34
RHS					
Ch: 0 to 22.90m	1	22.90	1.20	0.15	4.12
CROSS ROAD - 4					
LHS					
Ch: 0 to 30.90m	1	30.90	1.20	0.15	5.56
CROSS ROAD - 5					
LHS					
Ch: 0 to 18.0m	1	18.00	1.20	0.15	3.24
Ch: 18.0 to 27.70m	1	9.70			
Ch: 27.70 to 57.70m	1	30.00	1.20	0.15	5.40
Ch: 57.70 to 65.20m	1	7.50	1.20	0.15	1.35
RHS					
Ch: 0 to 30.0m	1	30.00	1.20	0.15	5.40
Ch: 30 to 60.0m	1	30.00	1.20	0.15	5.40
Ch: 60 to 64.40m	1	4.40	1.20	0.15	0.79
CULVERT					
Main Road - 1	1	5.00	1.60	0.15	1.20
Main Road - 2	1	5.50	1.60	0.15	1.32
Main Road - 3	1	5.90	1.60	0.15	1.42
Main Road - 4	1	5.00	1.50	0.15	1.13
Main Road - 5	1	6.10	1.50	0.15	1.37
Main Road - 6	1	5.90	1.60	0.15	1.42
Main Road - 7	1	5.10	1.60	0.15	1.22
Main Road - 8	1	4.80	1.60	0.15	1.15
Main Road - 9	1	4.70	1.60	0.15	1.13
For Kerb Stone					
Santosh nagar					
Main Road					
LHS					
Ch: 0 to 5.5m	1	5.50	0.20	0.10	0.11
Road gap					
Ch: 0 to 23.2m	1	23.20	0.20	0.10	0.46
Road gap					
Ch: 0 to 26.0m	1	26.00	0.20	0.10	0.52

Road gap							
Ch: 0 to 25.0m		✓	25.00	0.20	0.10	0.50	
Road gap							
Ch: 0 to 26.3m		✓	26.30	0.20	0.10	0.53	
Road gap							
Ch: 0 to 31.0m		✓	31.00	0.20	0.10	0.62	
Road gap							
Ch: 0 to 13.60m		✓	13.60	0.20	0.10	0.27	
Road gap							
Ch: 0 to 30.0m		✓	30.00	0.20	0.10	0.60	
Ch: 30 to 60.0m		✓	30.00	0.20	0.10	0.60	
Ch: 60 to 70.50m		✓	10.50	0.20	0.10	0.21	
Ch: 70.5 to 80.20m		✓	9.70				
Ch: 80.2 to 99.20m		✓	19.00	0.20	0.10	0.38	
RHS							
Ch: 0 to 30.0m		✓	30.00	0.20	0.10	0.60	
Ch: 30 to 32.0m		✓	2.00	0.20	0.10	0.04	
Road gap							
Ch: 0 to 26.7m		✓	26.70	0.20	0.10	0.53	
Road gap							
Ch: 0 to 30.0m		✓	30.00	0.20	0.10	0.60	
Ch: 30 to 34.20m		✓	4.20	0.20	0.10	0.08	
Road gap							
Ch: 0 to 27.20m		✓	27.20	0.20	0.10	0.54	
Road gap							
Ch: 0 to 26.80m		✓	26.00	0.20	0.10	0.52	
Road gap							
Ch: 0 to 28.80m		✓	28.80	0.20	0.10	0.58	
Road gap							
Ch: 0 to 30.0m		✓	30.00	0.20	0.10	0.60	
Ch: 30 to 60.0m		✓	30.00	0.20	0.10	0.60	
Ch: 60 to 62.20m		✓	2.20	0.20	0.10	0.04	
			Present Qty	156.85	Cum		
			Limited to	156.62	Cum		

Contractor




 Assistant Engineer
 ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ, ವಿಜಯನಗರ
 ಯಶಸ್ವಿ ಸುಪ್ಲೈ ಸಂಸ್ಥೆ, ಮೈಸೂರು.
 ಪಿ.ಐ.ಎಂ.ಓ. ಬಂಗಲೆಯ-106
 25/11/2019
 25/11/2019

Name of Work: Improvements to roads and drains at SC/ST area of Attur layout and surrounding areas in Ward No. 03 of Yelahanka sub division

Date of Pre-Measurement : 5/1/2020

Item No	Discription of Item	Detailed Measurements					
		No	Length	Breadth	Depth	Qty	Unit
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centring shuttering cost of material HOM of machinery curing etc., complete exeluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per						
	RAFT						
	Santosh nagar						
	Main Road						
	LHS						
	Ch: 0 to 5.5m	1	5.50	1.10	0.15	0.91	
	Road gap						
	Ch: 0 to 23.2m	1	23.20	1.10	0.15	3.83	
	Road gap						
	Ch: 0 to 26.0m	1	26.00	1.10	0.15	4.29	
	Road gap						
	Ch: 0 to 25.0m	1	25.00	1.10	0.15	4.13	
	Road gap						
	Ch: 0 to 26.3m	1	26.30	1.10	0.15	4.34	
	Road gap						
	Ch: 0 to 31.0m	1	31.00	1.10	0.15	5.12	
	Road gap						
	Ch: 0 to 13.60m	1	13.60	1.10	0.15	2.24	
	Road gap						
	Ch: 0 to 30.0m	1	30.00	1.10	0.15	4.95	
	Ch: 30 to 60.0m	1	30.00	1.10	0.15	4.95	
	Ch: 60 to 70.50m	1	10.50	1.10	0.15	1.73	
	Ch: 70.5 to 80.20m	1	9.70				
	Ch: 80.2 to 99.20m	1	19.00	1.10	0.15	3.14	
	RHS						
	Ch: 0 to 30.0m	1	30.00	1.10	0.15	4.95	
	Ch: 30 to 32.0m	1	2.00	1.10	0.15	0.33	
	Road gap						
	Ch: 0 to 26.7m	1	26.70	1.10	0.15	4.41	
	Road gap						
	Ch: 0 to 30.0m	1	30.00	1.10	0.15	4.95	
	Ch: 30 to 34.20m	1	4.20	1.10	0.15	0.69	
	Road gap						
	Ch: 0 to 27.20m	1	27.20	1.10	0.15	4.49	
	Road gap						
	Ch: 0 to 26.80m	1	26.00	1.10	0.15	4.29	
	Road gap						
	Ch: 0 to 28.80m	1	28.80	1.10	0.15	4.75	

Road gap						
Ch: 0 to 30.0m		✓	30.00	1.10	0.15	4.95
Ch: 30 to 60.0m		✓	30.00	1.10	0.15	4.95
Ch: 60 to 62.20m		✓	2.20	1.10	0.15	0.36
CROSS ROAD - 1						
LHS						
Ch: 0 to 16.90m		✓	16.90	1.40	0.15	2.79
RHS						
Ch: 0 to 17.20m		✓	17.20	1.10	0.15	2.84
CROSS ROAD - 2						
LHS						
Ch: 0 to 22.10m		✓	22.10	1.10	0.15	3.65
RHS						
Ch: 0 to 24.10m		✓	24.10	1.10	0.15	3.98
CROSS ROAD - 3						
LHS						
Ch: 0 to 24.10m		✓	24.10	1.10	0.15	3.98
RHS						
Ch: 0 to 22.90m		✓	22.90	1.10	0.15	3.78
CROSS ROAD - 4						
LHS						
Ch: 0 to 30.90m		✓	30.90	1.10	0.15	5.10
CROSS ROAD - 5						
LHS						
Ch: 0 to 18.0m		✓	18.00	1.10	0.15	2.97
Ch: 18.0 to 27.70m		✓	9.70			
Ch: 27.70 to 57.70m		✓	30.00	1.10	0.15	4.95
Ch: 57.70 to 65.20m		✓	7.50	1.10	0.15	1.24
RHS						
Ch: 0 to 30.0m		✓	30.00	1.10	0.15	4.95
Ch: 30 to 60.0m		✓	30.00	1.10	0.15	4.95
Ch: 60 to 64.40m		✓	4.40	1.10	0.15	0.73
WALL						
Santosh nagar						
Main Road						
LHS						
Ch: 0 to 5.5m		2	5.50	0.15	0.70	1.16
Road gap						
Ch: 0 to 23.2m		2	23.20	0.15	0.70	4.87
Road gap						
Ch: 0 to 26.0m		2	26.00	0.15	0.70	5.46
Road gap						
Ch: 0 to 25.0m		2	25.00	0.15	0.70	5.25
Road gap						
Ch: 0 to 26.3m		2	26.30	0.15	0.70	5.52
Road gap						
Ch: 0 to 31.0m		2	31.00	0.15	0.70	6.51
Road gap						
Ch: 0 to 13.60m		2	13.60	0.15	0.70	2.86
Road gap						

Ch: 0 to 30.0m	2	30.00	0.15	0.65	5.85
Ch: 30 to 60.0m	2	30.00	0.15	0.65	5.85
Ch: 60 to 70.50m	2	10.50	0.15	0.65	2.05
Ch: 70.5 to 80.20m	2	9.70	-	-	-
Ch: 80.2 to 99.20m	2	19.00	0.15	0.65	3.71
RHS					
Ch: 0 to 30.0m	2	30.00	0.15	0.65	5.85
Ch: 30 to 32.0m	2	2.00	0.15	0.65	0.39
Road gap					
Ch: 0 to 26.7m	2	26.70	0.15	0.65	5.21
Road gap					
Ch: 0 to 30.0m	2	30.00	0.15	0.65	5.85
Ch: 30 to 34.20m	2	4.20	0.15	0.65	0.82
Road gap					
Ch: 0 to 27.20m	2	27.20	0.15	0.70	5.71
Road gap					
Ch: 0 to 26.80m	2	26.80	0.15	0.70	5.46
Road gap					
Ch: 0 to 28.80m	2	28.80	0.15	0.75	6.48
Road gap					
Ch: 0 to 30.0m	2	30.00	0.15	0.75	6.75
Ch: 30 to 60.0m	2	30.00	0.15	0.75	6.75
Ch: 60 to 62.20m	2	2.20	0.15	0.75	0.50
CROSS ROAD - 1					
LHS					
Ch: 0 to 16.90m	2	16.90	0.15	0.60	3.04
RHS					
Ch: 0 to 17.20m	2	17.20	0.15	0.60	3.10
CROSS ROAD - 2					
LHS					
Ch: 0 to 22.10m	2	22.10	0.15	0.60	3.98
RHS					
Ch: 0 to 24.10m	2	24.10	0.15	0.60	4.34
CROSS ROAD - 3					
LHS					
Ch: 0 to 24.10m	2	24.10	0.15	0.60	4.34
RHS					
Ch: 0 to 22.90m	2	22.90	0.15	0.60	4.12
CROSS ROAD - 4					
LHS					
Ch: 0 to 30.90m	2	30.90	0.15	0.60	5.56
CROSS ROAD - 5					
LHS					
Ch: 0 to 18.0m	2	18.00	0.15	0.60	3.24
Ch: 18.0 to 27.70m	2	9.70	-	-	-
Ch: 27.70 to 57.70m	2	30.00	0.15	0.60	5.40
Ch: 57.70 to 65.20m	2	7.50	0.15	0.60	1.35
RHS					
Ch: 0 to 30.0m	2	30.00	0.15	0.60	5.40
Ch: 30 to 60.0m	2	30.00	0.15	0.60	5.40

Ch: 60 to 64.40m		2	4.40	0.15	0.60	0.79	
CULVERT RAFT							
Main Road - 1		1	5.00	1.50	0.23	1.73	
Main Road - 2		1	5.50	1.50	0.23	1.90	
Main Road - 3		1	5.90	1.50	0.23	2.04	
Main Road - 4		1	5.00	1.30	0.23	1.50	
Main Road - 5		1	6.10	1.30	0.23	1.82	
Main Road - 6		1	5.90	1.50	0.23	2.04	
Main Road - 7		1	5.10	1.50	0.23	1.76	
Main Road - 8		1	4.80	1.50	0.23	1.66	
Main Road - 9		1	4.70	1.50	0.23	1.62	
CULVERT WALL							
Main Road - 1		2	5.00	0.23	0.60	1.38	
Main Road - 2		2	5.50	0.23	0.60	1.52	
Main Road - 3		2	5.90	0.23	0.60	1.63	
Main Road - 4		2	5.00	0.23	0.60	1.38	
Main Road - 5		2	6.10	0.23	0.60	1.68	
Main Road - 6		2	5.90	0.23	0.60	1.63	
Main Road - 7		2	5.10	0.23	0.60	1.41	
Main Road - 8		2	4.80	0.23	0.60	1.32	
Main Road - 9		2	4.70	0.23	0.60	1.30	
		Present Qty		302.82	Cum		

Contractor



[Signature]
Assistant Engineer

[Signature] 5/10/2020
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯಲಕರ್ಕೆ ಬೆಂಚಿಗುರಿ ಉಪನಿರ್ದೇಶಕರು.
ಬಿ.ಬಿ.ಎಂ.ಕೆ. ಬೆಂಗಳೂರು-106
5/10/2020

Name of Work: Improvements to roads and drains at SC/ST area of Attur layout and surrounding areas in Ward No. 03 of Yelahanka sub division

Date of Pre-Measurement : 5/1/2020

Detailed Measurements

Item No	Description of Item	No	Length	Breadth	Depth	Qty	Unit
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebres wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500.						
	Santosh nagar						
	Main Road, LHS						
	Total Drain length=240.10m						
	Main bar 10mm dia bar @ 100mm						
	0.61kg/mtr						
	No of U-bar=2401.00Nos	2401	2.40		0.61	3515.06	
	Distribution bar						
	Distribution bar 10mm dia @ 110mm						
	0.61kg/mtr	20	240.10		0.61	2929.22	
	Main Road, RHS						
	Total Drain length=237.10m						
	Main bar 10mm dia bar @ 100mm						
	0.61kg/mtr						
	No of U-bar=2371.00Nos	2371	2.40		0.61	3471.14	
	Distribution bar						
	Distribution bar 10mm dia @ 110mm						
	0.61kg/mtr	20	237.10		0.61	2892.62	
	CROSS ROAD - 1, LHS						
	Total Drain length=16.90m						
	Main bar 10mm dia bar @ 100mm						
	0.61kg/mtr						
	No of U-bar=169.00Nos	169	2.40		0.61	216.49	
	Distribution bar						
	Distribution bar 10mm dia @ 110mm						
	0.61kg/mtr	18	16.90		0.61	185.56	
	CROSS ROAD - 1, RHS						
	Total Drain length=17.20m						
	Main bar 10mm dia bar @ 100mm						
	0.61kg/mtr						
	No of U-bar=172.00Nos	172	2.10		0.61	220.33	
	Distribution bar						
	Distribution bar 10mm dia @ 110mm						
	0.61kg/mtr	18	17.20		0.61	188.86	
	CROSS ROAD - 2, LHS						
	Total Drain length=22.10m						
	Main bar 10mm dia bar @ 100mm						

0.61kg/mtr						
No of U-bar=221.00Nos		221	2.10		0.61	283.10
Distribution bar						
Distribution bar 10mm dia @ 110mm						
0.61kg/mtr		18	22.10		0.61	242.66
CROSS ROAD - 2, RHS						
Total Drain length=24.10m						
Main bar 10mm dia bar @ 100mm						
0.61kg/mtr						
No of U-bar=241.00Nos		241	2.10		0.61	308.72
Distribution bar						
Distribution bar 10mm dia @ 110mm						
0.61kg/mtr		18	24.10		0.61	264.62
CROSS ROAD - 3, LHS						
Total Drain length=24.10m						
Main bar 10mm dia bar @ 100mm						
0.61kg/mtr						
No of U-bar=241.00Nos		241	2.10		0.61	308.72
Distribution bar						
Distribution bar 10mm dia @ 110mm						
0.61kg/mtr		18	24.10		0.61	264.62
CROSS ROAD - 3, RHS						
Total Drain length=22.90m						
Main bar 10mm dia bar @ 100mm						
0.61kg/mtr						
No of U-bar=229.00Nos		229	2.10		0.61	293.55
Distribution bar						
Distribution bar 10mm dia @ 110mm						
0.61kg/mtr		18	22.90		0.61	251.44
CROSS ROAD - 4, LHS						
Total Drain length=30.90m						
Main bar 10mm dia bar @ 100mm						
0.61kg/mtr						
No of U-bar=309.00Nos		309	2.10		0.61	395.83
Distribution bar						
Distribution bar 10mm dia @ 110mm						
0.61kg/mtr		18	30.90		0.61	339.28
CROSS ROAD - 5, LHS						
Total Drain length=55.50m						
Main bar 10mm dia bar @ 100mm						
0.61kg/mtr						
No of U-bar=555.00Nos		555	2.15		0.61	727.88
Distribution bar						
Distribution bar 10mm dia @ 110mm						
0.61kg/mtr		19	55.50		0.61	643.25
CROSS ROAD - 5, RHS						
Total Drain length=64.40m						
Main bar 10mm dia bar @ 100mm						
0.61kg/mtr						

No of U-bar=644.00Nos	644	2.15	0.61	844.61
Distribution bar				
Distribution bar 10mm dia @ 110mm				
0.61kg/mtr				
Culvert	19	64.40	0.61	746.40
Total Drain length=36.90m				
Main bar 10mm dia bar @ 100mm				
0.61kg/mtr				
No of U-bar=738.00Nos	738	2.60	0.61	1170.47
Distribution bar				
Distribution bar 10mm dia @ 150mm				
0.61kg/mtr				
Culvert	34	36.90	0.61	768.31
Total Drain length=11.10m				
Main bar 10mm dia bar @ 100mm				
0.61kg/mtr				
No of U-bar=222.00Nos	222	2.20	0.61	297.92
Distribution bar				
Distribution bar 10mm dia @ 120mm				
0.61kg/mtr				
	36	11.10	0.61	243.76
				22011.21
Present Qty				22.01 Ton

Contractor



[Signature]
Assistant Engineer

[Signature] 05/01/2020
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಮುಖವಾರಿ,
Asst. Executive Engineer,
ಬಿ.ಬಿ.ಎಂ.ಡಿ. ಬೆಂಗಳೂರು-106
5/1/2020

Name of Work: Improvements to roads and drains at SC/ST area of
Attur layout and surrounding areas in Ward No. 03 of Yelahanka sub
division

MEASUREMENT SHEETS

"FIRST AND FINAL BILL"

Name of Work: Improvements to roads and drains at SC/ST area of Attur layout and surrounding areas in Ward No. 03 of Yelahanka sub division

of Pre-Measurement :

Detailed Measurements

Item No	Description of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1, Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking								
	Pre-measurement sheet no 1 to 2					1136.77			
	Present Qty	1136.77	Cum	215.28	244724.00				
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @ 0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and								
	Pre-measurement sheet no 3 to 5					156.62			
	Present Qty	156.62	Cum	5421.90	849173.00				
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and down size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centring shuttering cost of material HOM of machinery curing etc., complete excluding cost of steel as per MORTH specification								
	Pre-measurement sheet no 6 to 9					302.82			
	Present Qty	302.82	Cum	7070.20	2141005.00				
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebres wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per								
	Pre-measurement sheet no 10 to 12					22.01			
	Present Qty	22.01	Ton	73992.24	1628659.00				

Contractor



Assistant Engineer

ಶ್ರೀಕಾಯಕ. ಶಾಸ್ತ್ರಿ. ಪಾಲಿಕೆ. ಕಾರ್ಯಾಂಗವರು
ಯಲಕ್ಕೂರು ಬಸವನಗಿರಿ ಮುನ್ಸಿಪಲ್ ಕಾರ್ಪೊರೇಷನ್,
ಇ.ಬಿ.ಎಂ.ಓ. ಬೆಂಗಳೂರು-106

22/1/2020

(1)

Name of Work: Improvements to roads and drains at SC/ST area of Attur layout and surrounding areas in Ward No. 03 of Yelahanka sub division

Measurement : 22/1/2020

Detailed Measurements

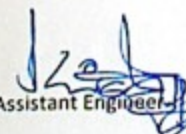
Item No	Description of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
5	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of								
	Santosh nagar								
	Main Road								
	LHS								
	Ch: 0 to 5.5m	1	5.50	0.90		4.95			
	Road gap								
	Ch: 0 to 23.2m	1	23.20	0.90		20.88			
	Road gap								
	Ch: 0 to 26.0m	1	26.00	0.90		23.40			
	Road gap								
	Ch: 0 to 25.0m	1	25.00	0.90		22.50			
	Road gap								
	Ch: 0 to 26.3m	1	26.30	0.90		23.67			
	Road gap								
	Ch: 0 to 31.0m	1	31.00	0.90		27.90			
	Road gap								
	Ch: 0 to 13.60m	1	13.60	0.90		12.24			
	Road gap								
	Ch: 0 to 30.0m	1	30.00	0.90		27.00			
	Ch: 30 to 60.0m	1	30.00	0.90		27.00			
	Ch: 60 to 70.50m	1	10.50	0.90		9.45			
	Ch: 70.5 to 80.20m	1	9.70						
	Ch: 80.2 to 99.20m	1	19.00	0.90		17.10			
	RHS								
	Ch: 0 to 30.0m	1	30.00	0.90		27.00			
	Ch: 30 to 32.0m	1	2.00	0.90		1.80			
	Road gap								
	Ch: 0 to 26.7m	1	26.70	0.90		24.03			
	Road gap								
	Ch: 0 to 30.0m	1	30.00	0.90		27.00			
	Ch: 30 to 34.20m	1	4.20	0.90		3.78			
	Road gap								
	Ch: 0 to 27.20m	1	27.20	0.90		24.48			
	Road gap								
	Ch: 0 to 26.80m	1	26.00	0.90		23.40			
	Road gap								
	Ch: 0 to 28.80m	1	28.80	0.90		25.92			
	Road gap								
	Ch: 0 to 30.0m	1	30.00	0.90		27.00			
	Ch: 30 to 60.0m	1	30.00	0.90		27.00			
	Ch: 60 to 62.20m	1	2.20	0.90		1.98			
	Missing slabs Attur Mn Rd								
		20	0.60	0.90		10.80			
		12	0.60	0.90		6.48			

CFC
29/01/2020

	29	0.60	0.90				
	15	0.60	0.90		15.66		
	32	0.60	0.90		8.10		
	18	0.60	0.90		17.28		
	10	0.60	0.90		9.72		
	15	0.60	0.90		5.40		
	12	0.60	0.90		8.10		
	14	0.60	0.90		6.48		
	26	0.60	0.90		7.56		
	20	0.60	0.90		14.04		
	18	0.60	0.90		10.80		
					9.72		
CROSS ROAD - 1	Rate	Amount					
LHS							
Ch: 0 to 16.90m							
RHS	1	16.90	0.90		15.21		
Ch: 0 to 17.20m							
CROSS ROAD - 2	1	17.20	0.90		15.48		
LHS							
Ch: 0 to 22.10m							
RHS	1	22.10	0.90		19.89		
Ch: 0 to 24.10m							
CROSS ROAD - 3	1	24.10	0.90		21.69		
LHS							
Ch: 0 to 24.10m							
RHS	1	24.10	0.90		21.69		
Ch: 0 to 22.90m							
CROSS ROAD - 4	1	22.90	0.90		20.61		
LHS							
Ch: 0 to 30.90m							
CROSS ROAD - 5	1	30.90	0.90		27.81		
LHS							
Ch: 0 to 18.0m							
Ch: 18.0 to 27.70m	1	18.00	0.90		16.20		
Ch: 27.70 to 57.70m	1	9.70					
Ch: 57.70 to 65.20m	1	30.00	0.90		27.00		
RHS	1	7.50	0.90		6.75		
Ch: 0 to 30.0m							
Ch: 30 to 60.0m	1	30.00	0.90		27.00		
Ch: 60 to 64.40m	1	4.40	0.90		3.96		
Present Qty				809.91	Sqm	2337.00	1892760.00

Contractor




 Assistant Engineer
 ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ
 ಯಶವಂತಪುರ ಜಿಲ್ಲಾ ಪಂಚಾಯತ್,
 - ಬಿ.ಬಿ.ಎಂ.ಎ. ಬೀದಿ-106
 22/11/2020

Name of Work: Improvements to roads and drains at SC/ST area of Attur layout and surrounding areas in Ward No. 03 of Yelahanka sub division

Date of Measurement : 23/1/2020

Detailed Measurements

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and								
Santosh nagar								
Main Road								
LHS								
Ch: 0 to 5.5m	✓	5.50			12.00			
Road gap	1	23.20			52.00			
Ch: 0 to 23.2m	1	26.00			58.00			
Road gap	1	25.00			56.00			
Ch: 0 to 26.0m	1	26.30			58.00			
Road gap	1	31.00			69.00			
Ch: 0 to 31.0m	1	13.60			30.00			
Road gap	1	30.00			67.00			
Ch: 0 to 30.0m	1	30.00			67.00			
Ch: 30 to 60.0m	1	10.50			23.00			
Ch: 60 to 70.50m	1	9.70			38.00			
Ch: 70.5 to 80.20m	1	17.00			67.00			
Ch: 80.2 to 99.20m	1	2.00			4.00			
RHS								
Ch: 0 to 30.0m	1	30.00			67.00			
Ch: 30 to 32.0m	1	2.00			4.00			
Road gap	1	26.70			59.00			
Ch: 0 to 26.7m	1	30.00			67.00			
Road gap	1	4.20			9.00			
Ch: 0 to 30.0m	1	27.20			60.00			
Road gap	1	26.00			58.00			
Ch: 0 to 27.20m	1	28.80			64.00			
Road gap	1	30.00			67.00			
Ch: 0 to 26.80m	1	30.00			67.00			
Road gap	1	2.20			5.00			
Ch: 0 to 30.0m								
Ch: 30 to 60.0m								
Ch: 60 to 62.20m								
Present Qty					1057.00	Nos	432.48	457132.00

29/01/2020



Contractor

Assistant Engineer

(4)

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಯಶಸ್ವಿ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಜಿ.ಬಿ.ಎಂ.ಕೆ. ಬೆಂಗಳೂರು-106

23/1/2020

Name of Work: Improvements to roads and drains at SC/ST area of Attur layout and surrounding areas in Ward No. 03 of Yelahanka sub division

Age of Measurement : 23/1/2020

Detailed Measurements

No	Description of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
7	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, Santosh nagar								
	Main Road								
	LHS								
	Ch: 0 to 5.5m	✓	5.50	0.40		2.20			
	Road gap								
	Ch: 0 to 23.2m	✓	23.20	0.40		9.28			
	Road gap								
	Ch: 0 to 26.0m	✓	26.00	0.40		10.40			
	Road gap								
	Ch: 0 to 25.0m	1	25.00	0.40		10.00			
	Road gap								
	Ch: 0 to 26.3m	1	26.30	0.40		10.52			
	Road gap								
	Ch: 0 to 31.0m	1	31.00	0.40		12.40			
	Road gap								
	Ch: 0 to 13.60m	1	13.60	0.40		5.44			
	Road gap								
	Ch: 0 to 30.0m	1	30.00	0.40		12.00			
	Ch: 30 to 60.0m	1	30.00	0.40		12.00			
	Ch: 60 to 70.50m	1	10.50	0.40		4.20			
	Ch: 70.5 to 80.20m	1	9.70						
	Ch: 80.2 to 99.20m	1	17.00	0.40		6.80			
	RHS								
	Ch: 0 to 30.0m	1	30.00	0.40		12.00			
	Ch: 30 to 32.0m	1	2.00	0.40		0.80			
	Road gap								
	Ch: 0 to 26.7m	1	26.70	0.40		10.68			
	Road gap								
	Ch: 0 to 30.0m	1	30.00	0.40		12.00			
	Ch: 30 to 34.20m	1	4.20	0.40		1.68			
	Road gap								
	Ch: 0 to 27.20m	1	27.20	0.40		10.88			
	Road gap								
	Ch: 0 to 26.80m	1	26.00	0.40		10.40			
	Road gap								
	Ch: 0 to 28.80m	1	28.80	0.40		11.52			
	Road gap								
	Ch: 0 to 30.0m	1	30.00	0.40		12.00			
	Ch: 30 to 60.0m	1	30.00	0.40		12.00			
	Ch: 60 to 62.20m	1	2.20	0.40		0.88			
Present Qty						190.08	Sqm	84.80	16119.00

Contractor



Assistant Engineer

(5)

23/1/2020

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ, ಅಭಿವೃದ್ಧಿ
ಯೋಜನೆ, ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಕೆ. ಬೆಂಗಳೂರು-೫೦೦

Asst. Executive Engineer

23/1/2020

Name of Work: Improvements to roads and drains at SC/ST area of Attur layout and surrounding areas in Ward No. 03 of Yelahanka sub division

of Measurement : 24.1.2020

Detailed Measurements

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
CULVERT RAFT								
Main Road - 1								
Main Road - 2	1	5.00	1.50		7.50			
Main Road - 3	1	5.50	1.50		8.25			
Main Road - 4	1	5.90	1.50		8.85			
Main Road - 5	1	5.00	1.20		6.00			
Main Road - 6	1	6.10	1.20		7.32			
Main Road - 7	1	5.90	1.50		8.85			
Main Road - 8	1	5.10	1.50		7.65			
Main Road - 9	1	4.80	1.50		7.20			
	1	4.70	1.50		7.05			

Present Qty 68.67 Sqm 5418.00 372055.00

Total	7601627.00
12% GST	912196.00
4% KRIDL	304066.00
Grand Total	8817889.00

Contractor



Assistant Engineer
 ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
 ಯುಜಿಆರ್ ಸಿಬಿಡಿ, ಗಣವಿಭಾಗ,
 ಪಿ.ಐ.ಎಂ.ಎ. ಬೆಂಗಳೂರು-108
 24/1/2020
 C & F C
 24/01/2020